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☐ 1. 2/5/1 (Item 1 from file: 123)

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Status Changes:

REISSUE REQUESTED

Assignee:  
Moltech Invent S A LU

Patent Number	Issue Date
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Patent:  
US 6093304

20000725

Reissue Requested:

Request Number	Request Date	Recorded in OG	Exam. Group	Reissue Patent No.
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09/917247 20010727 20020514 1741

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☐ 2.

2/5/2 (Item 1 from file: 345)

12924432

Basic Patent (No,Kind,Date): CA 2199288 AA 19960314

PATENT FAMILY:  
AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9531901 A1 19960327

ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS  
(English)

Patent Assignee: MOLTECH INVENT SA

Author (Inventor): NORA VITTORIO DE  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): AU 9531901 A 19950830  
IPC: \* C25C-003/08  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): AU 9865932 A1 19980730  
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CATHODE BOTTOM (English)  
Patent Assignee: MOLTECH INVENT SA  
Author (Inventor): NORA VITTORIO DE  
Priority (No,Kind,Date): US 302178 A 19940908  
Applic (No,Kind,Date): AU 9865932 A 19980514  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): AU 688098 B2 19980305  
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS-  
(English)  
Patent Assignee: MOLTECH INVENT SA  
Author (Inventor): NORA VITTORIO DE  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): AU 9531901 A 19950830  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): AU 708455 B2 19990805  
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CATHODE BOTTOM (English)  
Patent Assignee: MOLTECH INVENT SA  
Author (Inventor): NORA VITTORIO DE  
Priority (No,Kind,Date): AU 9865932 A 19980514; AU 9531901 A3  
19950830; US 302178 A 19940908  
Applic (No,Kind,Date): AU 9865932 A 19980514  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English

## CANADA (CA)

Patent (No,Kind,Date): CA 2199288 AA 19960314  
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS  
(English; French)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): US 302178 A 19940908  
Applic (No,Kind,Date): CA 2199288 A 19950830  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English

## GERMANY (DE)

Patent (No,Kind,Date): DE 69509540 C0 19990610  
ALUMINIUM-ELEKTROGEWINNUNGSZELLE MIT VERBESSERTEN  
KOHLENSTOFF-KATHODEBLOECKEN (German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): DE 69509540 A 19950830  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: German

Patent (No,Kind,Date): DE 69526264 C0 20020508  
ALUMINIUM ELEKTROLYSEZELLE MIT DRAINIERFAEHIGE KATHODE (German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): US 302178 A 19940908  
Applic (No,Kind,Date): DE 69526264 A 19950830  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: German  
Patent (No,Kind,Date): DE 69509540 T2 19990930  
ALUMINIUM-ELEKTROGEWINNUNGSZELLE MIT VERBESSERTEN  
KOHLENSTOFF-KATHODEBLOECKEN (German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): DE 69509540 A 19950830  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: German  
Patent (No,Kind,Date): DE 69526264 T2 20021024  
ALUMINIUM ELEKTROLYSEZELLE MIT DRAINIERFAEHIGE KATHODE (German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): US 302178 A 19940908  
Applic (No,Kind,Date): DE 69526264 A 19950830  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: German

## EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 782636 A1 19970709  
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS  
(English; French; German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): EP 95927945 A 19950830  
Designated States: (National) DE; ES; FR; GB; IT; NL  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): EP 905284 A1 19990331  
ALUMINIUM ELECTROWINNING CELL WITH DRAINED CATHODE (English; French;  
German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): EP 95927945 A3 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): EP 98117608 A 19950830  
Designated States: (National) DE; ES; FR; GB; IT; NL  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): EP 1146146 A2 20011017  
HORIZONTAL DRAINED CATHODE SURFACE WITH RECESSED GROOVES FOR ALUMINIUM  
ELECTROWINNING (English; French; German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): EP 98117608 A3 19950830; EP 95927945 A3  
19950830; US 302178 A 19940908

Applic (No,Kind,Date): EP 2001116922 A 19950830  
Designated States: (National) DE; ES; FR; GB; IT; NL  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): EP 1146146 A3 20020502  
HORIZONTAL DRAINED CATHODE SURFACE WITH RECESSED GROOVES FOR ALUMINIUM  
ELECTROWINNING (English; French; German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): EP 98117608 A3 19950830; EP 95927945 A3  
19950830; US 302178 A 19940908  
Applic (No,Kind,Date): EP 2001116922 A 19950830  
Designated States: (National) DE; ES; FR; GB; IT; NL  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): EP 782636 B1 19990506  
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS  
(English; French; German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): EP 95927945 A 19950830  
Designated States: (National) DE; ES; FR; GB; IT; NL  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): EP 905284 B1 20020403  
ALUMINIUM ELECTROWINNING CELL WITH DRAINED CATHODE (English; French;  
German)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): EP 95927945 A3 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): EP 98117608 A 19950830  
Designated States: (National) DE; ES; FR; GB; IT; NL  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
NORWAY (NO)  
Patent (No,Kind,Date): NO 9701060 A 19970307  
ELEKTROLYTISK CELLE MED FORBEDREDE KARBONKATODEBLOKKER FOR UTVINNING AV  
ALUMINIUM (Norwegian)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): NORA VITTORIO DE (BS)  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): NO 971060 A 19970307  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: Norwegian  
Patent (No,Kind,Date): NO 9701060 A0 19970307  
ELEKTROLYTISK CELLE MED FORBEDREDE KARBONKATODEBLOKKER FOR UTVINNING AV  
ALUMINIUM (Norwegian)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): NORA VITTORIO DE (BS)  
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A  
19940908  
Applic (No,Kind,Date): NO 971060 A 19970307  
IPC: \* C25C

CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: Norwegian

## UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5683559 A 19971104  
CELL FOR ALUMINIUM ELECTROWINNING EMPLOYING A CATHODE CELL BOTTOM MADE  
OF CARBON BLOCKS WHICH HAVE PARALLEL CHANNELS THEREIN (English)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): US 571629 A 19951213; US 302178 B1  
19940908  
Applic (No,Kind,Date): US 571629 A 19951213  
National Class: \* 204243000R; 204294000; 264030000; 264039000;  
264293000  
IPC: \* C25C-003/08; F27D-001/16; B28B-007/04; B29C-059/00  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): US 5888360 A 19990330  
CELL FOR ALUMINIUM ELECTROWINNING (English)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): US 961924 A 19971031; US 571629 A3  
19951213; US 302178 B1 19940908  
Applic (No,Kind,Date): US 961924 A 19971031  
Addnl Info: 5683559 Patented  
National Class: \* 204243000R; 204245000; 204294000  
IPC: \* C25C-003/08  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English  
Patent (No,Kind,Date): US 6093304 A 20000725  
CELL FOR ALUMINIUM ELECTROWINNING (English)  
Patent Assignee: MOLTECH INVENT SA (LU)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): US 277930 A 19990329; US 961924 A1  
19971031; US 571629 A3 19951213; US 302178 B1 19940908  
Applic (No,Kind,Date): US 277930 A 19990329  
Addnl Info: 5888360 Patented; 5683559 Patented  
National Class: \* 205381000; 204245000; 204294000  
IPC: \* C25C-003/08; C25C-003/00; C25B-011/12  
CA Abstract No: \* 125(04)043752P  
Derwent WPI Acc No: \* C 96-171642  
Language of Document: English

## WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9607773 A1 19960314  
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS  
(English)  
Patent Assignee: MOLTECH INVENT SA (LU); NORA VITTORIO DE (BS)  
Author (Inventor): DE NORA VITTORIO (BS)  
Priority (No,Kind,Date): US 302178 A 19940908  
Applic (No,Kind,Date): WO 9518721 A 19950830  
Designated States: (National) AT; AU; BR; CA; CH; CN; CZ; DE; ES; GB;  
HU; IS; JP; KP; KR; MX; NO; NZ; PL; RO; RU; SE; SI; SK; TJ; UA; US  
(Regional) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT  
; SE  
Filing Details: WO 100000 with international search report  
IPC: \* C25C-003/08  
CA Abstract No: ; 125(04)043752P  
Derwent WPI Acc No: ; C 96-171642  
Language of Document: English

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